

Title (en)
SYSTEM AND METHOD FOR PREDICTING AN OCCUPANCY PROBABILITY OF A POINT IN AN ENVIRONMENT, AND TRAINING METHOD THEREOF

Title (de)
SYSTEM UND VERFAHREN ZUR VORHERSAGE EINER BELEGUNGSWAHRSCHEINLICHKEIT EINES PUNKTES IN EINER UMGEBUNG UND TRAININGSVERFAHREN DAFÜR

Title (fr)
SYSTÈME ET PROCÉDÉ PERMETTANT DE PRÉDIRE UNE PROBABILITÉ D'OCCUPATION D'UN POINT DANS UN ENVIRONNEMENT, ET SON PROCÉDÉ DE FORMATION

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Abstract (en)
A system (10) for predicting an occupancy probability of at least one point (x) in an environment, based on at least one image (12) of said environment, the system (10) comprising an image encoder (20) configured to extract features (22) from the at least one image (12), a detection module (30) configured to detect at least one object in the image (12) and to associate shape information (32) to the detected at least one object, and an implicit function network (50) configured to predict the occupancy probability ($p(\delta)$) based on the features (22) and the shape information (32). A related method and a method for training such a system are further disclosed herein.

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Citation (applicant)

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